Special Issue

Advanced Precision Machining of Metallic Surfaces

Message from the Guest Editor

Advanced precision machining is a field that encompasses many technologies that have been applied as science has evolved. These developments enable the production of parts with increasing precision in a shorter time. It is based on the use of advanced computerized machine tools that achieve high tolerances and create complex geometric cuts with high repeatability and accuracy. High-precision machining is in great demand in aerospace, medical and automotivecomponents-making industries to avoid any premature failure during their service life. In this Special Issue, we welcome articles that focus on advance precision machining techniques such as ultra-precision machining, micro-machining, laser-assisted machining, high-speed machining, hard machining, and any other novel machining techniques. Additionally, articles on surface roughness, surface integrity, machined surface characterization, advanced algorithms, simulations, adaptive control and machine learning techniques to enable precision machining are welcomed.

Guest Editor

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Deadline for manuscript submissions

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About the Journal

Message from the Editor-in-Chief

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

Editor-in-Chief

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